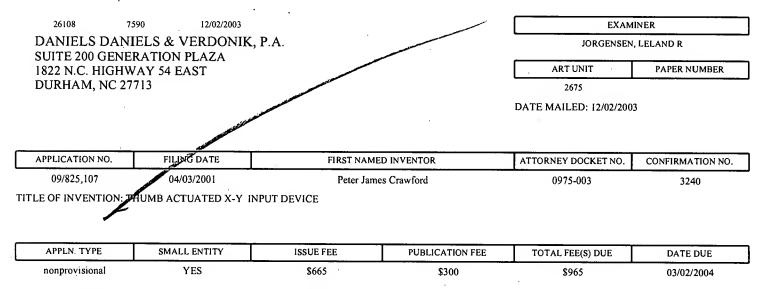


UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE



THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000

or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as

| elow or directed otherwise | e in Block I, by (a |) specifying a new | correspondence addre | ss; and/or (b) indicating a sep | arate "FEE ADDRESS" fo |
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| maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) | | | Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must | | |
| 12/02/2003 | | | have its own certific | cate of mailing or transmission. | cht of formal drawing, mus |
| ATION PLAZA AY 54 EAST | ζ, P.A. | • | I hereby certify that States Postal Service addressed to the M | this Fee(s) Transmittal is being e with sufficient postage for fir fail Ston ISSUE FEE address | g deposited with the Uniterst class mail in an envelop |
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For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agents OR, alternatively, (2) the name of a single firm (having as a member a registered patent attorney or agents OR, alternatively, (2) the name of a single firm (having as a member a registered patent attorney or agents OR, alternatively, (2) the name of a single firm (having as a member a registered patent attorney or agents OR, alternatively, (2) the name of a single firm (having as a member a registered patent attorney or agents OR, alternatively, (2) the name of a single firm (having as a member a registered patent attorney or agents OR, alternatively, (2) the name of a single firm (having as a member a registered patent attorney or agents and the names of up to 2 registered patent attorney or agents and the names of up to 2 registered patent attorney or agents and the names of up to 2 registered patent attorney or agents and the names of up to 2 registered patent attorney or agents and the names of up to 2 registered patent attorney or agents and the names of up to 2 registered patent attorney or agents and the names of up to 2 registered patent attorney or agents and the names of up to 2 registered patent attorney or agents are developed to the patent for the patent attorney or agents. If no name is listed, no name RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) assignee is identified below, no assignee data will appear on the patent, Inclusion of assignee data is only appropriated. BESIDENCE: Ab. |



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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/825,107 04/03/2001 Peter James Crawford 0975-003 3240 26108 12/02/2003 **EXAMINER** DANIELS DANIELS & VERDONIK, P.A. JORGENSEN, LELAND R **SUITE 200 GENERATION PLAZA** ART UNIT PAPER NUMBER 1822 N.C. HIGHWAY 54 EAST DURHAM, NC 27713 2675 DATE MAILED: 12/02/2003

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 140 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 140 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/825,107 | 04/03/2001 | Peter James Crawford | 0975-003 | 3240 |
| 26108 | 7590 12/02/2003 | | EXAMINER | |
| | NIELS & VERDONIK ERATION PLAZA | JORGENSEN, LELAND R | | |
| 1822 N.C. HIGH | | | ART UNIT | PAPER NUMBER |
| DURHAM, NC 27713 | | | 2675 | |
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DATE MAILED: 12/02/2003

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))......\$320.00

By other than a small entity......\$640.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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|---|---|--|---------------------------|--|--|--|--|
| | Application No. | Applicant(s) | | | | | |
| | 09/825,107 | CRAWFORD, PETER JAMES | | | | | |
| Notice of Allowability | Examiner | Art Unit | | | | | |
| | Leland R. Jorgensen | 2675 | | | | | |
| The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to | olication. If not include will be mailed in due o | ed course, THIS | | | | |
| This communication is responsive to <u>Amendment and Responsive</u> The allowed claim(s) is/are <u>3</u>, <u>4</u>, <u>6</u> - <u>16</u>, <u>18</u> - <u>20</u>, <u>and 24</u> - <u>34</u> The drawings filed on are accepted by the Examined Acknowledgment is made of a claim for foreign priority uner a) ☐ All b) ☐ Some* c) ☐ None of the: Certified copies of the priority documents have | 4; now renumbered as claims 1 - 27. r. nder 35 U.S.C. § 119(a)-(d) or (f). | | | | | | |
| 2. Certified copies of the priority documents have | | | | | | | |
| Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). | cuments have been received in this i | national stage applicati | ion from the | | | | |
| | | | | | | | |
| * Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority ur reference was included in the first sentence of the specifica (a) The translation of the foreign language provisional at Acknowledgment is made of a claim for domestic priority ur in the first sentence of the specification or in an Application | ition or in an Application Data Sheet. pplication has been received. nder 35 U.S.C. §§ 120 and/or 121 sir | . 37 CFR 1.78. | | | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of t | this communication to file a reply cothis application. THIS THREE-MON | mplying with the requi | rements noted | | | | |
| 7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. | | | | | | | |
| 8. | on's Patent Drawing Review (PTO- | | | | | | |
| (b) \square including changes required by the proposed drawing correction filed, which has been approved by the Examiner. | | | | | | | |
| (c) I including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No | | | | | | | |
| Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the | 84(c)) should be written on the drawin ne margin according to 37 CFR 1.121(c | igs in the front (not the l d). | back) of | | | | |
| 9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR THE | sit of BIOLOGICAL MATERIAL m HE DEPOSIT OF BIOLOGICAL MAT | nust be submitted. No FERIAL. | ote the | | | | |
| Attachment(s) | | | | | | | |
| 1 ☐ Notice of References Cited (PTO-892) | 5 ☐ Notice of Informal Pat | tent Application (PTO- | 152) | | | | |
| 2⊠ Notice of Draftperson's Patent Drawing Review (PTO-948) 3□ Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No | 6☐ Interview Summary (F | PTO-413), Paper No | • | | | | |
| 4 Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8☐ Examiner's Statement 9☐ Other | t of Reasons for Allowa | ance | | | | |
| STEVEN SARAS SUPERVISORY PATENT EX TECHNOLOGY CENTER | AMINER 2600 | | | | | | |